

09/887,625

FILE 'HOME' ENTERED AT 09:04:23 ON 26 OCT 2004

=> biosis medline caplus wpids uspatfull

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=> file biosis medline caplus wpids uspatfull

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FILE 'USPATFULL' ENTERED AT 09:05:26 ON 26 OCT 2004

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\*\*\* YOU HAVE NEW MAIL \*\*\*

=> s detect? (10a) ratio? (10a) nucleic acid?

3 FILES SEARCHED...

L1 154 DETECT? (10A) RATIO? (10A) NUCLEIC ACID?

=> s l1 and elctro? (3a) label?

L2 0 L1 AND ELCTRO? (3A) LABEL?

=> s l1 and electro? (4a) label?

4 FILES SEARCHED...

L3 28 L1 AND ELECTRO? (4A) LABEL?

=> s l3 and differ? (5a) potential?

L4 9 L3 AND DIFFER? (5A) POTENTIAL?

=> dup rem l4

PROCESSING COMPLETED FOR L4

L5 9 DUP REM L4 (0 DUPLICATES REMOVED)

=> d l5 bib abs 1-9

L5 ANSWER 1 OF 9 USPATFULL on STN

AN 2004:13092 USPATFULL

TI Methods and apparati using single polymer analysis

IN Zhao, Xiaojian, Westford, MA, UNITED STATES

Randall, Jeffrey D., Canton, MA, UNITED STATES

Kundu, Bijit, Brookline, MA, UNITED STATES

Kesty, Jessica, Seabrook, NH, UNITED STATES

Gullans, Steve R., Natick, MA, UNITED STATES

Chan, Eugene Y., Brookline, MA, UNITED STATES

Fuchs, Martin, Uxbridge, MA, UNITED STATES

PI US 2004009612 A1 20040115

AI US 2003-448264 A1 20030528 (10)

PRAI US 2002-383968P 20020528 (60)  
US 2003-437892P 20030103 (60)  
US 2003-441334P 20030120 (60)  
US 2003-441337P 20030121 (60)

DT Utility

FS APPLICATION

LREP Maria A. Trevisan, Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue,  
Boston, MA, 02210

CLMN Number of Claims: 136

ECL Exemplary Claim: 1

DRWN 39 Drawing Page(s)

LN.CNT 3179

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention relates to methods for analyzing and characterizing single  
polymers such as nucleic acid molecules. In preferred embodiments, the  
single molecules are analyzed using single molecule detection and  
analysis systems.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 2 OF 9 USPATFULL on STN

AN 2003:265281 USPATFULL

TI Expression monitoring by hybridization to high density oligonucleotide  
arrays

IN Fodor, Stephen P.A., Palo Alto, CA, UNITED STATES

Solas, Dennis W., San Francisco, CA, UNITED STATES

Dower, William J., Menlo Park, CA, UNITED STATES

PA AFFYMETRIX, INC. (U.S. corporation)

PI US 2003186296 A1 20031002

AI US 2003-367708 A1 20030219 (10)

RLI Division of Ser. No. US 2001-851312, filed on 9 May 2001, GRANTED, Pat.  
No. US 6551784 Continuation-in-part of Ser. No. US 1995-529115, filed on  
15 Sep 1995, GRANTED, Pat. No. US 6040138 Continuation-in-part of Ser.  
No. US 1996-670118, filed on 25 Jun 1996, GRANTED, Pat. No. US 5800992  
Division of Ser. No. US 1993-168904, filed on 15 Dec 1993, ABANDONED  
Continuation of Ser. No. US 1990-624114, filed on 6 Dec 1990, ABANDONED  
Continuation-in-part of Ser. No. US 1989-362901, filed on 7 Jun 1989,  
ABANDONED

PRAI WO 1996-US14839 19960913

DT Utility

FS APPLICATION

LREP MORGAN LEWIS & BOCKIUS LLP, 1111 PENNSYLVANIA AVENUE, N.W., WASHINGTON,  
DC, 20004

CLMN Number of Claims: 22

ECL Exemplary Claim: 1

DRWN 12 Drawing Page(s)

LN.CNT 7067

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods for comparing and identifying  
differences in nucleic acid sequences using a plurality of sequence  
specific recognition reagents (i.e., probes comprising a nucleic acid  
complementary to a nucleic acid sequence in collections to be compared)  
bound to a solid surface.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 3 OF 9 USPATFULL on STN

AN 2003:258639 USPATFULL

TI 207 human secreted proteins

IN Ni, Jian, Germantown, MD, UNITED STATES

Ebner, Reinhard, Gaithersburg, MD, UNITED STATES

LaFleur, David W., Washington, DC, UNITED STATES

Moore, Paul A., Germantown, MD, UNITED STATES

Olsen, Henrik S., Gaithersburg, MD, UNITED STATES

Rosen, Craig A., Laytonsville, MD, UNITED STATES  
 Ruben, Steven M., Olney, MD, UNITED STATES  
 Soppet, Daniel R., Centreville, VA, UNITED STATES  
 Young, Paul E., Gaithersburg, MD, UNITED STATES  
 Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
 Florence, Kimberly A., Rockville, MD, UNITED STATES  
 Wei, Ying-Fei, Berkeley, CA, UNITED STATES  
 Florence, Charles, Rockville, MD, UNITED STATES  
 Hu, Jing-Shan, Mountain View, CA, UNITED STATES  
 Li, Yi, Sunnyvale, CA, UNITED STATES  
 Kyaw, Hla, Frederick, MD, UNITED STATES  
 Fischer, Carrie L., Burke, VA, UNITED STATES  
 Ferrie, Ann M., Painted Post, NY, UNITED STATES  
 Fan, Ping, Potomac, MD, UNITED STATES  
 Feng, Ping, Gaithersburg, MD, UNITED STATES  
 Endress, Gregory A., Florence, MA, UNITED STATES  
 Dillon, Patrick J., Carlsbad, CA, UNITED STATES  
 Carter, Kenneth C., North Potomac, MD, UNITED STATES  
 Brewer, Laurie A., St. Paul, MN, UNITED STATES  
 Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
 Zeng, Zhizhen, Lansdale, PA, UNITED STATES  
 Greene, John M., Gaithersburg, MD, UNITED STATES

PI US 2003181692 A1 20030925

AI US 2001-933767 A1 20010822 (9)

RLI Continuation-in-part of Ser. No. WO 2001-US5614, filed on 21 Feb 2001,  
 PENDING Continuation-in-part of Ser. No. US 1998-205258, filed on 4 Dec  
 1998, PENDING

PRAI US 2000-184836P 20000224 (60)  
 US 2000-193170P 20000329 (60)  
 US 1997-48885P 19970606 (60)  
 US 1997-49375P 19970606 (60)  
 US 1997-48881P 19970606 (60)  
 US 1997-48880P 19970606 (60)  
 US 1997-48896P 19970606 (60)  
 US 1997-49020P 19970606 (60)  
 US 1997-48876P 19970606 (60)  
 US 1997-48895P 19970606 (60)  
 US 1997-48884P 19970606 (60)  
 US 1997-48894P 19970606 (60)  
 US 1997-48971P 19970606 (60)  
 US 1997-48964P 19970606 (60)  
 US 1997-48882P 19970606 (60)  
 US 1997-48899P 19970606 (60)  
 US 1997-48893P 19970606 (60)  
 US 1997-48900P 19970606 (60)  
 US 1997-48901P 19970606 (60)  
 US 1997-48892P 19970606 (60)  
 US 1997-48915P 19970606 (60)  
 US 1997-49019P 19970606 (60)  
 US 1997-48970P 19970606 (60)  
 US 1997-48972P 19970606 (60)  
 US 1997-48916P 19970606 (60)  
 US 1997-49373P 19970606 (60)  
 US 1997-48875P 19970606 (60)  
 US 1997-49374P 19970606 (60)  
 US 1997-48917P 19970606 (60)  
 US 1997-48949P 19970606 (60)  
 US 1997-48974P 19970606 (60)  
 US 1997-48883P 19970606 (60)  
 US 1997-48897P 19970606 (60)  
 US 1997-48898P 19970606 (60)  
 US 1997-48962P 19970606 (60)  
 US 1997-48963P 19970606 (60)  
 US 1997-48877P 19970606 (60)

US 1997-48878P	19970606 (60)
US 1997-57645P	19970905 (60)
US 1997-57642P	19970905 (60)
US 1997-57668P	19970905 (60)
US 1997-57635P	19970905 (60)
US 1997-57627P	19970905 (60)
US 1997-57667P	19970905 (60)
US 1997-57666P	19970905 (60)
US 1997-57764P	19970905 (60)
US 1997-57643P	19970905 (60)
US 1997-57769P	19970905 (60)
US 1997-57763P	19970905 (60)
US 1997-57650P	19970905 (60)
US 1997-57584P	19970905 (60)
US 1997-57647P	19970905 (60)
US 1997-57661P	19970905 (60)
US 1997-57662P	19970905 (60)
US 1997-57646P	19970905 (60)
US 1997-57654P	19970905 (60)
US 1997-57651P	19970905 (60)
US 1997-57644P	19970905 (60)
US 1997-57765P	19970905 (60)
US 1997-57762P	19970905 (60)
US 1997-57775P	19970905 (60)
US 1997-57648P	19970905 (60)
US 1997-57774P	19970905 (60)
US 1997-57649P	19970905 (60)
US 1997-57770P	19970905 (60)
US 1997-57771P	19970905 (60)
US 1997-57761P	19970905 (60)
US 1997-57760P	19970905 (60)
US 1997-57776P	19970905 (60)
US 1997-57778P	19970905 (60)
US 1997-57629P	19970905 (60)
US 1997-57628P	19970905 (60)
US 1997-57777P	19970905 (60)
US 1997-57634P	19970905 (60)
US 1997-70923P	19971218 (60)
US 1998-92921P	19980715 (60)
US 1998-94657P	19980730 (60)
US 1997-70923P	19971218 (60)
US 1998-92921P	19980715 (60)
US 1998-94657P	19980730 (60)

DT Utility

FS APPLICATION

LREP HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850

CLMN Number of Claims: 23.

ECL Exemplary Claim: 1

DRWN 10 Drawing Page(s)

LN.CNT 32746

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 4 OF 9 USPATFULL on STN

AN 2003:237907 USPATFULL

TI Compositions and methods for the therapy and diagnosis of colon cancer

IN King, Gordon E., Shoreline, WA, UNITED STATES  
Meagher, Madeleine Joy, Seattle, WA, UNITED STATES  
Xu, Jiangchun, Bellevue, WA, UNITED STATES  
Secrist, Heather, Seattle, WA, UNITED STATES  
Jiang, Yuqiu, Kent, WA, UNITED STATES  
PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)  
PI US 2003166064 A1 20030904  
AI US 2002-99926 A1 20020314 (10)  
RLI Continuation-in-part of Ser. No. US 2001-33528, filed on 26 Dec 2001,  
PENDING Continuation-in-part of Ser. No. US 2001-920300, filed on 31 Jul  
2001, PENDING  
PRAI US 2001-302051P 20010629 (60)  
US 2001-279763P 20010328 (60)  
US 2000-223283P 20000803 (60)  
DT Utility  
FS APPLICATION  
LREP SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,  
SEATTLE, WA, 98104-7092  
CLMN Number of Claims: 17  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 8531

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for the therapy and diagnosis of cancer,  
particularly colon cancer, are disclosed. Illustrative compositions  
comprise one or more colon tumor polypeptides, immunogenic portions  
thereof, polynucleotides that encode such polypeptides, antigen  
presenting cell that expresses such polypeptides, and T cells that are  
specific for cells expressing such polypeptides. The disclosed  
compositions are useful, for example, in the diagnosis, prevention  
and/or treatment of diseases, particularly colon cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 9 USPATFULL on STN  
AN 2003:106233 USPATFULL  
TI Compositions and methods for the therapy and diagnosis of pancreatic  
cancer  
IN Benson, Darin R., Seattle, WA, UNITED STATES  
Kalos, Michael D., Seattle, WA, UNITED STATES  
Lodes, Michael J., Seattle, WA, UNITED STATES  
Persing, David H., Redmond, WA, UNITED STATES  
Hepler, William T., Seattle, WA, UNITED STATES  
Jiang, Yuqiu, Kent, WA, UNITED STATES  
PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)  
PI US 2003073144 A1 20030417  
AI US 2002-60036 A1 20020130 (10)  
PRAI US 2001-333626P 20011127 (60)  
US 2001-305484P 20010712 (60)  
US 2001-265305P 20010130 (60)  
US 2001-267568P 20010209 (60)  
US 2001-313999P 20010820 (60)  
US 2001-291631P 20010516 (60)  
US 2001-287112P 20010428 (60)  
US 2001-278651P 20010321 (60)  
US 2001-265682P 20010131 (60)  
DT Utility  
FS APPLICATION  
LREP SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,  
SEATTLE, WA, 98104-7092  
CLMN Number of Claims: 17  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 14253

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for the therapy and diagnosis of cancer, particularly pancreatic cancer, are disclosed. Illustrative compositions comprise one or more pancreatic tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly pancreatic cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 9 USPATFULL on STN  
AN 2002:272801 USPATFULL  
TI Compositions and methods for the therapy and diagnosis of colon cancer  
IN Stolk, John A., Bothell, WA, UNITED STATES  
Xu, Jiangchun, Bellevue, WA, UNITED STATES  
Chenault, Ruth A., Seattle, WA, UNITED STATES  
Meagher, Madeleine Joy, Seattle, WA, UNITED STATES  
PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)  
PI US 2002150922 A1 20021017  
AI US 2001-998598 A1 20011116 (9)  
PRAI US 2001-304037P 20010710 (60)  
US 2001-279670P 20010328 (60)  
US 2001-267011P 20010206 (60)  
US 2000-252222P 20001120 (60)  
DT Utility  
FS APPLICATION  
LREP SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,  
SEATTLE, WA, 98104-7092  
CLMN Number of Claims: 17  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 9233

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for the therapy and diagnosis of cancer, particularly colon cancer, are disclosed. Illustrative compositions comprise one or more colon tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly colon cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 7 OF 9 USPATFULL on STN  
AN 2002:243051 USPATFULL  
TI Compositions and methods for the therapy and diagnosis of ovarian cancer  
IN Algate, Paul A., Issaquah, WA, UNITED STATES  
Jones, Robert, Seattle, WA, UNITED STATES  
Harlocker, Susan L., Seattle, WA, UNITED STATES  
PA Corixa Corporation, Seattle, WA, UNITED STATES, 98104 (U.S. corporation)  
PI US 2002132237 A1 20020919  
AI US 2001-867701 A1 20010529 (9)  
PRAI US 2000-207484P 20000526 (60)  
DT Utility  
FS APPLICATION  
LREP SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,  
SEATTLE, WA, 98104-7092  
CLMN Number of Claims: 11  
ECL Exemplary Claim: 1  
DRWN No Drawings  
LN.CNT 25718

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods for the therapy and diagnosis of cancer, particularly ovarian cancer, are disclosed. Illustrative compositions comprise one or more ovarian tumor polypeptides, immunogenic portions thereof, polynucleotides that encode such polypeptides, antigen presenting cell that expresses such polypeptides, and T cells that are specific for cells expressing such polypeptides. The disclosed compositions are useful, for example, in the diagnosis, prevention and/or treatment of diseases, particularly ovarian cancer.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 8 OF 9 USPATFULL on STN  
AN 2002:191502 USPATFULL  
TI Method for comparing nucleic acid sequences  
IN Fodor, Stephen P.A., Palo Alto, CA, UNITED STATES  
Solas, Dennis W., San Francisco, CA, UNITED STATES  
Dower, William J., Menlo Park, CA, UNITED STATES  
PI US 2002102567 A1 20020801  
US 6551784 B2 20030422  
AI US 2001-851312 A1 20010509 (9)  
RLI Continuation of Ser. No. US 1996-772376, filed on 23 Dec 1996, GRANTED, Pat. No. US 6309822 Continuation-in-part of Ser. No. US 1995-529115, filed on 15 Sep 1995, GRANTED, Pat. No. US 6040138 A 371 of International Ser. No. WO 1996-US14839, filed on 13 Sep 1996, UNKNOWN Division of Ser. No. US 1993-168904, filed on 15 Dec 1993, ABANDONED Continuation of Ser. No. US 1990-624114, filed on 6 Dec 1990, UNKNOWN Continuation-in-part of Ser. No. US 1989-362901, filed on 7 Jun 1989, UNKNOWN  
DT Utility  
FS APPLICATION  
LREP Pillsbury Winthrop LLP, Intellectual Property Group, 1600 Tysons Boulevard, McLean, VA, 22102  
CLMN Number of Claims: 22  
ECL Exemplary Claim: 1  
DRWN 12 Drawing Page(s)  
LN.CNT 7077

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods for comparing and identifying differences in nucleic acid sequences using a plurality of sequence specific recognition reagents (i.e., probes comprising a nucleic acid complementary to a nucleic acid sequence in collections to be compared) bound to a solid surface.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 9 OF 9 USPATFULL on STN  
AN 2001:190900 USPATFULL  
TI Method for comparing copy number of nucleic acid sequences  
IN Fodor, Stephen P. A., Palo Alto, CA, United States  
Solas, Dennis W., San Francisco, CA, United States  
Dower, William J., Menlo Park, CA, United States  
PA Affymetrix, Inc., Santa Clara, CA, United States (U.S. corporation)  
PI US 6309822 B1 20011030  
AI US 1996-772376 19961223 (8)  
RLI Continuation-in-part of Ser. No. US 1990-670118, filed on 25 Jun 1990, now patented, Pat. No. US 5800992 Continuation-in-part of Ser. No. US 1999-529115, filed on 15 Sep 1999, now patented, Pat. No. US 6040138 Division of Ser. No. US 1993-168904, filed on 15 Dec 1993, now abandoned Continuation of Ser. No. US 1990-624114, filed on 6 Dec 1990, now abandoned Continuation-in-part of Ser. No. US 1989-362901, filed on 7 Jun 1989, now abandoned  
PRAI WO 1996-US14839 19960913  
DT Utility



FS GRANTED  
EXNAM Primary Examiner: Zitomer, Stephanie  
LREP Pillsbury Winthrop LLP  
CLMN Number of Claims: 17  
ECL Exemplary Claim: 1  
DRWN 14 Drawing Figure(s); 12 Drawing Page(s)  
LN.CNT 7686

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides methods for comparing and identifying differences in nucleic acid sequences using a plurality of sequence specific recognition reagents (i.e., probes comprising a nucleic acid complementary to a nucleic acid sequence in collections to be compared) bound to a solid surface.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d 15 9 kwic

L5 ANSWER 9 OF 9 USPATFULL on STN

DETD . . . than blotted arrays. Less target oligonucleotide is used to produce a given signal thereby dramatically improving the signal to noise **ratio**. Consequently the methods of this invention permit **detection** of only a few copies of a **nucleic acid** in extremely complex nucleic acid mixtures.

DETD . . . the probes of the high density array. The short RNA fragments are then separated from the long fragments (e.g., by **electrophoresis**), **labeled** if necessary as described above, and then are ready for hybridization with the high density probe array.

DETD . . . By testing the strength of interactions under various different conditions, the interaction of the promoter protein with each of the **different potential** binding sites may be analyzed. The spectrum of strength of interactions with each **different potential** binding site may provide significant insight into the types of features which are important in determining specificity.

=>



=> d his

(FILE 'HOME' ENTERED AT 09:04:23 ON 26 OCT 2004)

FILE 'BIOSIS, MEDLINE, CAPLUS, WPIDS, USPATFULL' ENTERED AT 09:05:26 ON  
26 OCT 2004

L1 154 S DETECT? (10A) RATIO? (10A) NUCLEIC ACID?  
L2 0 S L1 AND ELCTRO? (3A) LABEL?  
L3 28 S L1 AND ELECTRO? (4A) LABEL?  
L4 9 S L3 AND DIFFER? (5A) POTENTIAL?  
L5 9 DUP REM L4 (0 DUPLICATES REMOVED)

=> dup rem l3

PROCESSING COMPLETED FOR L3

L6 28 DUP REM L3 (0 DUPLICATES REMOVED)

=> s l6 an electroconductive

MISSING OPERATOR L6 AN

The search profile that was entered contains terms or  
nested terms that are not separated by a logical operator.

=> s l6 and electroconduc?

L7 0 L6 AND ELECTROCONDUCT?

=> s l6 and electron?

L8 20 L6 AND ELECTRON?

=> s l8 not l5

L9 11 L8 NOT L5

=> d l9 bib abs 1-11

L9 ANSWER 1 OF 11 USPATFULL on STN

AN 2004:215406 USPATFULL

TI Detection of target molecules through interaction with probes

IN Puskas, Robert Steven, Manchester, MO, UNITED STATES

PA Singulex, Inc. (U.S. corporation)

PI US 2004166514 A1 20040826

AI US 2003-720044 A1 20031119 (10)

PRAI US 2002-427233P 20021119 (60)

US 2002-427234P 20021119 (60)

US 2002-427232P 20021119 (60)

DT Utility

FS APPLICATION

LREP SONNENSCHN NATH & ROSENTHAL LLP, P.O. BOX 061080, WACKER DRIVE  
STATION, SEARS TOWER, CHICAGO, IL, 60606-1080

CLMN Number of Claims: 57

ECL Exemplary Claim: 1

DRWN 7 Drawing Page(s)

LN.CNT 2134

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for detecting a target nucleic acid molecule or target nucleic  
acid molecular complex comprising: (a) contacting two or more probes  
complementary to the molecule or molecular complex, said molecule or  
molecular complex being labeled with one or more fluorescent dye  
molecules of the same dye or labeled with two dyes that are  
indistinguishable by their emission characteristics in an assay  
instrument, wherein each probe interacts specifically with a different  
target nucleic acid sequence or a structure on the molecule or molecular  
complex; and (b) detecting interaction of the probes with the molecule  
or molecular complex, said interaction being detected by an increase in  
fluorescence intensity during a detection interval having a fluorescence  
intensity above the fluorescence intensity of any individual free probe,

wherein molecule or molecular complex is analyzed such that only individual molecules or molecular complexes in contact with a probe are within an interrogation volume and within a detection time interval.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 2 OF 11 USPATFULL on STN  
AN 2004:76571 USPATFULL  
TI Methods for identifying nucleotides at defined positions in target nucleic acids  
IN Van Ness, Jeffrey, Claremont, CA, UNITED STATES  
Galas, David J., Claremont, CA, UNITED STATES  
Garrison, Lori K., Claremont, CA, UNITED STATES  
PI US 2004058349 A1 20040325  
AI US 2003-398004 A1 20030910 (10)  
WO 2001-US30742 20011001  
DT Utility  
FS APPLICATION  
LREP SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300, SEATTLE, WA, 98104-7092  
CLMN Number of Claims: 65  
ECL Exemplary Claim: 1  
DRWN 7 Drawing Page(s)  
LN.CNT 2799

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The identity of a nucleotide of interest in a target nucleic acid molecule is determined by combining the target with two primers, where the first primer hybridizes to and extends from a location 3' of the nucleotide of interest in the target, so as to incorporate the complement of the nucleotide of interest in a first extension product. The second primer then hybridizes to and extends based on the first extension product, at a location 3' of the complement of the nucleotide of interest, so as to incorporate the nucleotide of interest in a second extension product. The first primer then hybridizes to and extends from a location 3' of the nucleotide of interest in the second extension product, so as to form, in combination with the second extension product, a nucleic acid fragment. The first and second primers are designed to incorporate a portion of the recognition sequence of a restriction endonuclease that recognizes a partially variable interrupted base sequence. i.e. a sequence of the form A-B-C where A and C are a number and sequence of bases essential for RE recognition, and B is a number of bases essential for RE recognition. The first primer incorporates the sequence A, the second primer incorporates the sequence C, and they are designed, in view of the target, to product a nucleic acid fragment where sequences A and C are separated by the bases B, where the nucleotide of interest is within region B. Action of the RE on the nucleic acid fragment provides a small nucleic acid fragment that is amenable to characterization, to thereby reveal the identity of the nucleotide of interest.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 3 OF 11 USPATFULL on STN  
AN 2004:25163 USPATFULL  
TI Methods for parallel measurement of genetic variations  
IN Van Ness, Jeffrey, Claremont, CA, UNITED STATES  
Galas, David J, Claremont, CA, UNITED STATES  
Garrison, Lori K, Claremont, CA, UNITED STATES  
PI US 2004019005 A1 20040129  
AI US 2003-398006 A1 20030703 (10)  
WO 2001-US42432 20011001  
DT Utility  
FS APPLICATION  
LREP SEED INTELLECTUAL PROPERTY LAW GROUP PLLC, 701 FIFTH AVE, SUITE 6300,

SEATTLE, WA, 98104-7092

CLMN Number of Claims: 159

ECL Exemplary Claim: 1

DRWN 24 Drawing Page(s)

LN.CNT 4262

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The identity of a nucleotide of interest in a target nucleic acid molecule is determined by combining the target with two primers. The first primer is immobilized to a substrate and hybridizes to and extends from a location 3' of the nucleotide of interest in the target, so as to incorporate the complement of the nucleotide of interest in a first extension product. The second primer then hybridizes to and extends based on the first extension product, which is immobilized to the substrate via the first primer, at a location 3' of the complement of the nucleotide of interest, so as to incorporate the nucleotide of interest in a second extension product. The second extension product then dissociates from the first extension product and thus from the substrate and re-hybridizes to another first primer molecule that has not extended. The non-extended first primer then extends from a location 3' of the nucleotide of interest in the second extension product, so as to form, in combination with the second extension product, a double-stranded nucleic acid fragment. The first and second primers are designed to incorporate a portion of the recognition sequence of a restriction endonuclease (RE) that recognizes a partially variable interrupted nucleotide sequence, i.e., a sequence of the form D-N-S where D and S refer to specific nucleotide sequences essential for RE recognition, and N is a sequence consisting of n viable nucleotides also required for RE recognition. The first primer incorporates the sequence D, the second primer incorporates the sequence S, and they are designed, in view of the target, to product a nucleic acid fragment where constant sequences D and S are separated by variable sequence N, where the nucleotide of interest is within region N. Action of the RE on the nucleic acid fragment provides a small nucleic acid fragment that is amendable to characterization, to thereby reveal the identity of the nucleotide of interest.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 4 OF 11 USPATFULL on STN

AN 2003:93005 USPATFULL

TI Nucleic acid analysis techniques

IN Lockhart, David J., Santa Clara, CA, UNITED STATES

Chee, Mark, Palo Alto, CA, UNITED STATES

Gunderson, Kevin, Palo Alto, CA, UNITED STATES

Lai, Chaoqiang, Santa Clara, CA, UNITED STATES

Wodicka, Lisa, Santa Clara, CA, UNITED STATES

Cronin, Maureen T., Los Altos, CA, UNITED STATES

Lee, Danny H., San Jose, CA, UNITED STATES

Tran, Huu M., San Jose, CA, UNITED STATES

Matsuzaki, Hajime, Palo Alto, CA, UNITED STATES

McGall, Glenn H., Mt. View, CA, UNITED STATES

Barone, Anthony D., San Jose, CA, UNITED STATES

PI US 2003064364 A1 20030403

AI US 2002-880727 A1 20020411 (9)

RLI Continuation of Ser. No. US 1997-882649, filed on 25 Jun 1997, GRANTED,  
Pat. No. US 6344316 Continuation of Ser. No. WO 1997-US1603, filed on 22  
Jan 1997, UNKNOWN

PRAI US 1996-10471P 19960123 (60)

US 1997-35170P 19970109 (60)

DT Utility

FS APPLICATION

LREP TOWNSEND AND TOWNSEND AND CREW, LLP, TWO EMBARCADERO CENTER, EIGHTH  
FLOOR, SAN FRANCISCO, CA, 94111-3834

CLMN Number of Claims: 49

ECL Exemplary Claim: 1  
DRWN 47 Drawing Page(s)  
LN.CNT 6539

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a simplified method for identifying differences in nucleic acid abundances (e.g., expression levels) between two or more samples. The methods involve providing an array containing a large number (e.g. greater than 1,000) of arbitrarily selected different oligonucleotide probes where the sequence and location of each different probe is known. Nucleic acid samples (e.g. mRNA) from two or more samples are hybridized to the probe arrays and the pattern of hybridization is detected. Differences in the hybridization patterns between the samples indicates differences in expression of various genes between those samples. This invention also provides a method of end-labeling a nucleic acid. In one embodiment, the method involves providing a nucleic acid, providing a labeled oligonucleotide and then enzymatically ligating the oligonucleotide to the nucleic acid. Thus, for example, where the nucleic acid is an RNA, a labeled oligoribonucleotide can be ligated using an RNA ligase. In another embodiment, the end labeling can be accomplished by providing a nucleic acid, providing labeled nucleoside triphosphates, and attaching the nucleoside triphosphates to the nucleic acid using a terminal transferase.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 5 OF 11 USPATFULL on STN  
AN 2003:79642 USPATFULL  
TI Novel computation with nucleic acid molecules, computer and software for computing  
IN Sakakibara, Yasubumi, Tokyo, JAPAN  
Morimoto, Nobuhiko, Hachioji-shi, JAPAN  
Suyama, Akira, Hachioji-shi, JAPAN  
PA OLYMPUS OPTICAL CO., LTD., TOKYO, JAPAN (non-U.S. corporation)  
PI US 2003055571 A1 20030320  
AI US 2002-159475 A1 20020531 (10)  
RLI Continuation-in-part of Ser. No. US 2001-893205, filed on 27 Jun 2001, PENDING  
PRAI JP 2000-382449 20001215  
JP 2000-399415 20001227  
DT Utility  
FS APPLICATION  
LREP Scully, Scott, Murphy & Presser, 400 Garden City Plaza, Garden City, NY, 11530-0299  
CLMN Number of Claims: 42  
ECL Exemplary Claim: 1  
DRWN 22 Drawing Page(s)  
LN.CNT 3410

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is to provide a molecular computer comprising an **electronic** operation section and a molecular operation section, wherein, in addition to general computation processing, said **electronic** operation section controls a function of the molecular operation section substantially, and the molecular operation is performed under control thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 11 USPATFULL on STN  
AN 2002:221319 USPATFULL  
TI Novel computation with nucleic acid molecules, computer and software for computing  
IN Suyama, Akira, Hachioji-shi, JAPAN  
Sakakibara, Yasubumi, Tokyo, JAPAN

Morimoto, Nobuhiko, Hachioji-shi, JAPAN  
PA OLYMPUS OPTICAL CO., LTD., TOKYO, JAPAN (non-U.S. corporation)  
PI US 2002119458 A1 20020829  
AI US 2001-893205 A1 20010627 (9)  
PRAI JP 2000-382449 20001215  
JP 2000-399415 20001227  
DT Utility  
FS APPLICATION  
LREP Scully, Scott, Murphy & Presser, 400 Garden City Plaza, Garden City, NY,  
11530-0299  
CLMN Number of Claims: 24  
ECL Exemplary Claim: 1  
DRWN 14 Drawing Page(s)  
LN.CNT 2520

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention is to provide an information processing method using an operational nucleic acid, which comprises (a) converting arbitrary information into a nucleic acid molecule, (b) hybridizing the nucleic acid molecule obtained in (a) to an operational nucleic acid designed so as to express a logical equation indicating a condition to be detected, and extending the nucleic acid molecule hybridized, and (c) detecting a binding profile of the nucleic acid molecule included in the nucleic acid molecule extended in (b), thereby evaluating whether a solution of the logical equation is true or false. The present invention further provides an apparatus and a program for performing the information processing method.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 7 OF 11 USPATFULL on STN  
AN 2002:24160 USPATFULL  
TI Nucleic acid analysis techniques  
IN Lockhart, David J., Santa Clara, CA, United States  
Chee, Mark, Palo Alto, CA, United States  
Gunderson, Kevin, Palo Alto, CA, United States  
Chaoqiang, Lai, Santa Clara, CA, United States  
Wodicka, Lisa, Santa Clara, CA, United States  
Cronin, Maureen T., Los Altos, CA, United States  
Lee, Danny, San Jose, CA, United States  
Tran, Huu M., San Jose, CA, United States  
Matsuzaki, Hajime, Palo Alto, CA, United States  
PA Affymetrix, Inc., Santa Clara, CA, United States (U.S. corporation)  
PI US 6344316 B1 20020205  
AI US 1997-882649 19970625 (8)  
RLI Continuation of Ser. No. WO 1997-US1603, filed on 22 Jan 1997  
PRAI US 1997-35170P 19970109 (60)  
US 1996-10471P 19960123 (60)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Houtteman, Scott W.  
LREP Townsend and Townsend and Crew LLP  
CLMN Number of Claims: 28  
ECL Exemplary Claim: 1  
DRWN 54 Drawing Figure(s); 47 Drawing Page(s)  
LN.CNT 6540

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention provides a simplified method for identifying differences in nucleic acid abundances (e.g., expression levels) between two or more samples. The methods involve providing an array containing a large number (e.g. greater than 1,000) of arbitrarily selected different oligonucleotide probes where the sequence and location of each different probe is known. Nucleic acid samples (e.g. mRNA) from two or more samples are hybridized to the probe arrays and the pattern of hybridization is detected. Differences in the hybridization patterns

between the samples indicates differences in expression of various genes between those samples. This invention also provides a method of end-labeling a nucleic acid. In one embodiment, the method involves providing a nucleic acid, providing a labeled oligonucleotide and then enzymatically ligating the oligonucleotide to the nucleic acid. Thus, for example, where the nucleic acid is an RNA, a labeled oligoribonucleotide can be ligated using an RNA ligase. In another embodiment, the end labeling can be accomplished by providing a nucleic acid, providing labeled nucleoside triphosphates, and attaching the nucleoside triphosphates to the nucleic acid using a terminal transferase.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 8 OF 11 USPATFULL on STN  
 AN 2001:178820 USPATFULL  
 TI Organic semiconductor recognition complex and system  
 IN Kiel, Johnathan L., Universal City, TX, United States  
 Bruno, John G., San Antonio, TX, United States  
 Parker, Jill E., Floresville, TX, United States  
 Alls, John L., San Antonio, TX, United States  
 Batishko, Charles R., Richland, WA, United States  
 Holwitt, Eric A., San Antonio, TX, United States  
 PA Conceptual Mind Works, Inc., San Antonio, TX, United States (U.S. corporation)  
 PI US 6303316 B1 20011016  
 AI US 2000-608706 20000630 (9)  
 PRAI US 1999-142301P 19990702 (60)  
 US 2000-199620P 20000425 (60)  
 DT Utility  
 FS GRANTED  
 EXNAM Primary Examiner: Horlick, Kenneth R.  
 LREP Blakely, Sokoloff, Taylor & Zafman  
 CLMN Number of Claims: 62  
 ECL Exemplary Claim: 1  
 DRWN 31 Drawing Figure(s); 15 Drawing Page(s)  
 LN.CNT 3322

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In a recognition complex system, nucleic acid ligands comprising random DNA sequences are operatively coupled to an organic semiconductor and distributed so as to form an array of recognition complexes. When an unknown chemical or biological analyte is applied to the array, the electrical and/or photochemical properties of one or more of the recognition complexes are altered upon binding of the nucleic acid ligand to the analyte. The degree to which the electrical and/or photochemical properties change is a function of the affinity of the nucleic acid ligand sequence for the analyte. The electrical and photochemical changes associated with the array, as a whole, can be used as a unique signature to identify the analyte. In certain embodiments, an iterative process of selection and amplification of nucleic acid ligands that bind to the analyte can be used to generate a new array with greater affinity and specificity for a target analyte, or to produce one or more nucleic acid ligands with high binding affinity for an analyte. The present invention also provides methods for preparing nucleic acid ligands that bind with high affinity to an analyte and using such nucleic acid ligands to neutralize the analyte.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 11 USPATFULL on STN  
 AN 1999:132581 USPATFULL  
 TI Gene detection method  
 IN Hashimoto, Koji, Yokohama, Japan  
 Ito, Keiko, Kawasaki, Japan



Ishimori, Yoshio, Tokyo, Japan  
PA Kabushiki Kaisha Toshiba, Kawasaki, Japan (non-U.S. corporation)  
PI US 5972692 19991026  
AI US 1997-886161 19970630 (8)  
RLI Division of Ser. No. US 1993-167113, filed on 16 Dec 1993, now patented,  
Pat. No. US 5776672 which is a continuation-in-part of Ser. No. US  
1991-766064, filed on 27 Sep 1991, now abandoned  
PRAI JP 1990-259011 19900928  
JP 1991-90879 19910422  
JP 1991-191868 19910731  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Campbell, Eggerton A.  
LREP Oblon, Spivak, McClelland, Maier & Neustadt, P.C.  
CLMN Number of Claims: 7  
ECL Exemplary Claim: 1  
DRWN 10 Drawing Figure(s); 5 Drawing Page(s)  
LN.CNT 3248

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A single stranded nucleic acid probe having a base sequence  
complementary to the gene to be detected is immobilized onto the surface  
of an electrode or the tip of an optical fiber, and the nucleic probe is  
reacted with the gene sample denatured to a single stranded form, and  
then the nucleic acid probe hybridized with the gene is detected. In  
this procedure, to the reaction system consisting of the nucleic acid  
probe and the gene sample, a double stranded nucleic acid recognizing  
substance capable of binding specifically to the double stranded nucleic  
acid and being active electrochemically or optically is added. The  
detection of the nucleic acid probe is conducted by electrochemical or  
optical determination utilizing the electrode or optical fiber mentioned  
above. By this method, safer and more convenient detection of the gene  
is possible at a higher sensitivity even in a reduced time period.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 10 OF 11 USPATFULL on STN  
AN 1998:78923 USPATFULL  
TI Gene detection method  
IN Hashimoto, Koji, Yokohama, Japan  
Ito, Keiko, Kawasaki, Japan  
Ishimori, Yoshio, Tokyo, Japan  
Gotoh, Masanori, Tokyo, Japan  
PA Kabushiki Kaisha Toshiba, Kawasaki, Japan (non-U.S. corporation)  
PI US 5776672 19980707  
AI US 1993-167113 19931216 (8)  
RLI Continuation-in-part of Ser. No. US 1991-766064, filed on 27 Sep 1991  
PRAI JP 1990-259011 19900928  
JP 1991-90879 19910422  
JP 1991-191868 19910731  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Campbell, Eggerton A.  
LREP Oblon, Spivak, McClelland, Maier & Neustadt, P.C.  
CLMN Number of Claims: 9  
ECL Exemplary Claim: 1  
DRWN 10 Drawing Figure(s); 5 Drawing Page(s)  
LN.CNT 3246

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A single stranded nucleic acid probe having a base sequence  
complementary to the gene to be detected is immobilized onto the surface  
of an electrode or the tip of an optical fiber, and the nucleic probe is  
reacted with the gene sample denatured to a single stranded form, and  
then the nucleic acid probe hybridized with the gene is detected. In  
this procedure, to the reaction system consisting of the nucleic acid



probe and the gene sample, a double stranded nucleic acid recognizing substance capable of binding specifically to the double stranded nucleic acid and being active electrochemically or optically is added. The detection of the nucleic acid probe is conducted by electrochemical or optical determination utilizing the electrode or optical fiber mentioned above. By this method, safer and more convenient detection of the gene is possible at a higher sensitivity even in a reduced time period.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 11 OF 11 USPATFULL on STN  
AN 1998:30859 USPATFULL  
TI Adduct protection assay  
IN Becker, Michael, San Diego, CA, United States  
Nelson, Norman C., San Diego, CA, United States  
PA Gen-Probe Incorporated, San Diego, CA, United States (U.S. corporation)  
PI US 5731148 19980324  
AI US 1995-478221 19950607 (8)  
DT Utility  
FS Granted  
EXNAM Primary Examiner: Jones, W. Gary; Assistant Examiner: Atzel, Amy  
LREP Lyon & Lyon LLP  
CLMN Number of Claims: 36  
ECL Exemplary Claim: 1  
DRWN 5 Drawing Figure(s); 4 Drawing Page(s)  
LN.CNT 1534

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention features an adduct protection assay involving the use of a labelled binding partner and a signal altering ligand. The signal altering ligand can preferentially alter the ability of label which is not part of a binding partner:analyte complex to produce a detectable signal, compared to its ability to alter signal produced from label which is part of a binding partner:analyte complex. The presence or amount of analyte can be determined by detecting the signal produced from unaltered label. The adduct protection assay is very versatile. For example, alteration of signal can be carried out under a wide range of conditions (e.g., pH, temperature, and ionic strength), and both label alteration and signal triggering can be carried out at essentially constant temperature to achieve a high degree of sensitivity.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s electroconductive label?

L10 19 ELECTROCONDUCTIVE LABEL?

=> s l10 and nucleic acid?

3 FILES SEARCHED...

L11 14 L10 AND NUCLEIC ACID?

=>

=> dup rem l11

PROCESSING COMPLETED FOR L11

L12 14 DUP REM L11 (0 DUPLICATES REMOVED)

=> s l12 and ratio?

L13 3 L12 AND RATIO?

=> d l13 bib abs 1-3

L13 ANSWER 1 OF 3 USPATFULL on STN

AN 2002:148576 USPATFULL

TI Method for detecting **nucleic acids**

IN Makino, Yoshihiko, Saitama, JAPAN

Abe, Yoshihiko, Saitama, JAPAN

Ogawa, Masashi, Tokyo, JAPAN

Takagi, Makoto, Fukuoka, JAPAN

Takenaka, Shigeori, Fukuoka, JAPAN

Yamashita, Kenichi, Fukuoka, JAPAN

PI US 2002076717 A1 20020620

AI US 2001-887625 A1 20010622 (9)

PRAI JP 2000-187486 20000622

DT Utility

FS APPLICATION

LREP REED SMITH LLP, 375 Park Avenue, New York, NY, 10152

CLMN Number of Claims: 8

ECL Exemplary Claim: 1

DRWN 3 Drawing Page(s)

LN.CNT 552

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method of detecting **nucleic acid** fragments in plural samples is performed by the steps of: attaching an **electroconductive label** to **nucleic acid** fragments in one sample and attaching a different **electroconductive label** to **nucleic acid** fragments in another sample; preparing a mixture of these samples; spotting the mixture on an electroconductive microarray having plural electrodes onto which probe molecules complementary to the **nucleic acid** fragments are fixed, so that hybridization between the **nucleic acid** fragments and the probe molecules on the electroconductive microarray can proceed to form hybrid structures; applying to the electrode an electric potential corresponding to the oxidation-reduction potential of the former label and detecting on the electrode an electric current; applying to the electrode an electric potential corresponding to the oxidation-reduction potential of the latter label and detecting on the electrode an electric current; and comparing the electric current detected in the former detecting procedure and that detected in the latter detecting procedure.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 2 OF 3 USPATFULL on STN

AN 2002:72605 USPATFULL

TI Fixation of nucleotide derivatives to solid carrier

IN Iwaki, Yoshihide, Saitama, JAPAN

Makino, Yoshihiko, Saitama, JAPAN

Shinoki, Hiroshi, Saitama, JAPAN  
Kuhara, Satoru, Fukuoka, JAPAN  
Tashiro, Kosuke, Fukuoka, JAPAN  
Muta, Shigeru, Fukuoka, JAPAN

PI US 2002039742 A1 20020404  
AI US 2001-927697 A1 20010809 (9)  
PRAI JP 2000-241773 20000809  
JP 2001-161199 20010529

DT Utility

FS APPLICATION

LREP REED SMITH LLP, 375 PARK AVENUE, NEW YORK, NY, 10152

CLMN Number of Claims: 16

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 890

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A micro-array for analysis of DNA is prepared by the steps of spotting onto a solid carrier in its predetermined area in which plural reactive groups are fixed an aqueous solution which contains a thickening agent and probe molecules (e.g., DNA fragments) having a group reactive with the reactive group of the solid carrier to produce covalent bonding; spotting onto the solid carrier in a different area having the same reactive groups an aqueous solution (same or different); incubating the aqueous solution-spotted solid carrier to produce the covalent bondings; and washing the solid carrier with an aqueous medium to remove the thickening agent from the solid carrier. An electrostatic bonding can be utilized in place of the covalent bonding.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L13 ANSWER 3 OF 3 USPATFULL on STN

AN 2001:233294 USPATFULL

TI DNA chip and reactive electrode

IN Makino, Yoshihiko, Saitama, Japan

Abe, Yoshihiko, Saitama, Japan

Ogawa, Masashi, Tokyo, Japan

PA Fuji Photo Film Co., Ltd. (non-U.S. corporation)

PI US 2001053522 A1 20011220

AI US 2001-845403 A1 20010430 (9)

PRAI JP 2000-130090 20000428

DT Utility

FS APPLICATION

LREP Jules Goldberg, Jules E. Goldberg, Esq., REED SMITH LLP, 375 Park Avenue, New York, NY, 10152

CLMN Number of Claims: 33

ECL Exemplary Claim: 1

DRWN 2 Drawing Page(s)

LN.CNT 1224

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A **nucleic acid** detective means composed of an electrode and plural peptide **nucleic acids** which are fixed onto the electrode via covalent bonding is favorably employed for electrochemically detecting complementary DNA fragments The covalent bonding between the electrode and the peptide **nucleic acids** are favorably produced by the reaction between a reactive hydrogen-containing group attached to the peptide **nucleic acid** and a vinylsulfonyl group or a reactive precursor thereof attached to the electrode.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.